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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/782,329	09/782,329 02/13/2001		Mitchell Kriegman	F.11152	9809
27957	7590	12/18/2002			
LIEBERMA	AN & NO	OWAK LLP	EXAMINER		
350 FIFTH A SUITE 7412		V110	TRAN, TRANG U		
NEW YORK, NY 10118			ART UNIT	PAPER NUMBER	
				2614	,
				DATE MAILED: 12/18/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
	09/782,329	KRIEGMAN, MITCHELL					
Office Action Summary	Examiner	Art Unit					
	Trang U. Tran	2614					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Responsive to communication(s) filed on							
	is action is non-final.						
3) Since this application is in condition for alloware closed in accordance with the practice under	ince except for formal matters, pi						
Disposition of Claims							
4) Claim(s) 1-11 is/are pending in the application	• ·						
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-11</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers	_						
9) The specification is objected to by the Examiner	·						
10) The drawing(s) filed on is/are: a) acception acception and acception acception acception acception to the	· · · · · · · · · · · · · · · · · · ·						
		• ,					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	ı)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:		, , , , ,					
1. Certified copies of the priority documents	s have been received.						
2. Certified copies of the priority documents	s have been received in Applicati	on No					
Copies of the certified copies of the prior application from the International But See the attached detailed Office action for a list of the section for a list of th	eau (PCT Rule 17.2(a)).	· ·					
14) ☐ Acknowledgment is made of a claim for domestic	·						
a) The translation of the foreign language pro 15) Acknowledgment is made of a claim for domesti	visional application has been rec	eived.					
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	/ (PTO-413) Paper No(s) Patent Application (PTO-152)					
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tzidon et al. (US Patent No. 5,737,031) in view of Bunin (US Patent No. 3,070,920).

In considering claim 1, Tzidon et al discloses all the claimed subject matter, note 1) the claimed a virtual production set, including a key-colored background screen, a stage and at least one action puppet character manipulated by puppeteers on said virtual production set is met by the virtual set database and the keyer foreground of Fig. 2 (col. 3, line 30 to col. 4, line16), 2) the claimed at least two cameras, each of said cameras being positioned relative an action puppet character to record an action image of said puppet character on said virtual production set from a different camera angle is met by the main camera and the shadow camera (Figs. 2 and 3, col. 4, line 19 to col. 5, line 45), 3) the claimed means for compositing of each of said images from each of said cameras with a virtual image or a digitally created back plate is met by picture processing, adding shadow to background 111 (Figs. 2-5, col. 4, lines 18-53), and 4) the claimed means for compositing of each of said composited images in a multiple composite image is met by the combined image 113 (Figs. 2-5, col. 4, lines 18-53).

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However, Tzidon et al explicitly does not discloses the claimed at least one action puppet character manipulated by puppeteers on said virtual production set.

Bunin teaches that in Fig. 1, separate control rods 11 are attached to the head, stomach and arms of primary form 10. Animation of the human figure show is achieved by manipulation of the remote ends of the rods. The rods are sufficiently long to extend outside the field of view such as to locations behind a curtain so that the operators are hidden (col. 2, line 25 to col. 4, line 65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the one action puppet character manipulated by puppeteers as taught by Bunin into Tzidon et al's system in order to produce continuous motion animated characterizations for direct viewing and for motion picture photography and television.

In considering claim 2, the claimed wherein said system comprises two cameras, wherein one of said cameras records an action image of said puppet character from a master camera angle, relative to said virtual studio set, and the other of said cameras records an action image of said puppet character from a different camera angle, relative to said virtual studio set is met by the main camera and the shadow camera (Figs. 2 and 3, col. 4, line 19 to col. 5, line 45) of Tzidon et al.

In considering claim 3, the claimed wherein each of said composite images of each of said puppet action characters is integrated within the same image frame so as to provide complimentary action images of each of said puppet characters relative to

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one another is met by the combined image 113 (Figs. 2-5, col. 4, lines 18-53) of Tzidon et al.

In considering claim 4, the claimed wherein said composite images are integrated by separate compositing modules, so that each composited image appears within an allocated portion of a given image frame, and each allocated portion of said the image frame is adjusted relative to one another to create depth and/or perspective of one composited image relative to the other is met by the picture processing 111 and the combined image 113 (Figs. 2-5, col. 4, lines 18-53) of Tzidon et al.

In considering claim 5, the claimed wherein each allocated portion of said the image frame is adjusted relative to one another to create interaction and/or complimentary action of one puppet character from one composited image with another puppet character from another composited image with a given image frame is met by the picture processing 111 and the combined image 113 (Figs. 2-5, col. 4, lines 18-53) of Tzidon et al.

Claim 6 is rejected for the same reason as discussed in claim 1.

In considering claim 7, the claimed wherein said recording step B comprised comprising recording an action image of said puppet character, on two different cameras, at the same time is met by the main camera and the shadow camera (Figs. 2 and 3, col. 4, line 19 to col. 5, line 45) of Tzidon et al.

Claims 8-11 are rejected for the same reason as discussed in claims 2-5, respectively.

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Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Spector (US Patent No. 5,923,400) discloses real-time film animation technique.

Bunin (US Patent No. 3,899,848) discloses animated cartoon character and method.

Fischer et al. (US Patent No. 5,790,124) disclose system and method for allowing a performer to control and interact with an on-stage display device.

Mitsui et al. (US Patent No. 6,034,740) disclose keying system and composite image producing method.

Faroudja (US Patent No. 5,029,997) discloses stop-frame animation system.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Trang U. Tran** whose telephone number is **(703) 305-0090.**

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **John W. Miller**, can be reached at **(703) 305-4795**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

TT T1 December 4, 2002

JOHN MILLER SUPERVISORY PATENT EXAMINER

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TECHNOLOGY CENTER 2600